QUE. Write a C program to take a string input from user and find the reverse of that string without using built-in string function.

-Solution:

#include <iostream>

using namespace std;

int main()

{

string s;

cin>>s;

string d="";

for(int i=s.length()-1;i>=0;i--){

d=d+s[i];

}

cout<<d;

}

QUE. Write a c program to take input from user and find Factorial of that number using dowhile Loop only

Solution:

#include <iostream>

using namespace std;

int main(){

int num,prod=1;

cout<<"Number is : ";

cin>>num;

for(int i=1;i<num;i++){

prod=prod\*i;

}

cout<<"Factorial is : "<<prod;

}

QUE. Write a Menu-Driven C Program to perform below given operations - 1. Addition 2.Substraction 3. Multiplication 4.Division

-Solution:

QUE. Write a c program to draw the following given pattern

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-Solution:

int n;

cin>>n;

for(int i=0;i<n;i++){

for(int j=0;j<2\*(n-i);j++){

cout<<" ";

}

for(int j=0;j<2\*i-1;j++){

cout<<"\* ";

}

cout<<endl;

}

QUE. Write a C program to take two numbers from user and swap them without using third variable.

-Solution:

int a,b;

cin>>a>>b;

a=a+b;

b=a-b;

a=a-b;

cout<<"a = "<<a<<" b = "<<b;

QUE. Write a c program to display factors of positive integer. Ex. Enter a positive integer: 60 Factors of 60 are: 1 2 3 4 5 6 10 12 15 20 30 60

-Solution:

int a;

cout<<"Enter a Positive Number : ";

cin>>a;

cout<<"Factors of "<<a<<" are : ";

for(int i=1;i<=a/2;i++){

if(a%i==0){

cout<<i<<" ";

}

}

QUE. Write a c program to find out the multiplication of two matrices.

-Solution:

int a[50][50],b[50][50];

int n,m,prod=0,sum=0;

cout<<"row : ";cin>>n;

cout<<"column : ";cin>>m;

cout<<"Matrix 1 : ";

for(int i=0;i<n;i++){

for(int j=0;j<m;j++){

cin>>a[i][j];

}

}

cout<<"Matrix 2 : ";

for(int i=0;i<n;i++){

for(int j=0;j<m;j++){

cin>>b[i][j];

}

}

for(int i=0;i<n;i++){

for(int j=0;j<m;j++){

prod=a[i][j]\*b[j][i];

sum=sum+prod;

}

cout<<"Product : "<<sum<<endl;

prod=0;

sum=0;

}

QUE. Write a c program to print pascal Trangle.

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1 1 1

2 1 1 3 3

1 1 4 6 4 1 1

5 10 10 5 1

-Solution:

int row;

cout<<"Rows : ";

cin>>row;

for(int i=1;i<=row;i++){

for(int j=0;j<row-i;j++){

cout<<" ";

}

int c=1;

for(int k=1;k<=i;k++){

cout<<c;

c=c\*(i-k)/k;

}

cout<<endl;

}

QUE. Write a Program to shift inputted data by two bits to the left

-Solution:

int x,y;

cout<<"Integer to be Shifted : ";

cin>>x;

x<<=2;

y=x;

cout<<"The 2 bit Left Shifted Integer come out to be : "<<y;

QUE. Write a C Program to create an array of 10 elements , take the array values from user and find sum and average of array values

-Solution:

int sz;

cout<<"Size of Array : ";

cin>>sz;

int arr[50],sum=0;

float avrg=0;

for(int i=0;i<sz;i++){

cin>>arr[i];

}

for(int i=0;i<sz;i++){

sum=sum+arr[i];

}

avrg=sum/sz;

cout<<"Sum is : "<<sum<<" and average is : "<<avrg<<endl;

QUE. Write a C Program to find the largest element in an array

-Solution:

int a[50],n,lrg;

cout<<"Size of Array : ";

cin>>n;

cout<<"Your Array : ";

for(int i=0;i<n;i++){

cin>>a[i];

}

for(int i=0;i<n;i++){

if(a[i]>lrg){

lrg=a[i];

}

}

cout<<"Largest Elemetn is : "<<lrg;

QUE. A list of marks is given below which are obtained by a class of 50 students in the examination. 43,65,51,27,79,11,56,61,82,09,25,36,07,49,55,63,74,81,49,37,40,49,16,75,87,91,33,24,58,78,65,56,76,67,45,54,36,63,12,21,73,49,51,19,39,49,68,93,85,59

Write a program to count the number of students belonging to each of the following groups of marks: 0-9, 10-19, 20 -29, ----, 90-100.

-Solution: